

# FIG. I

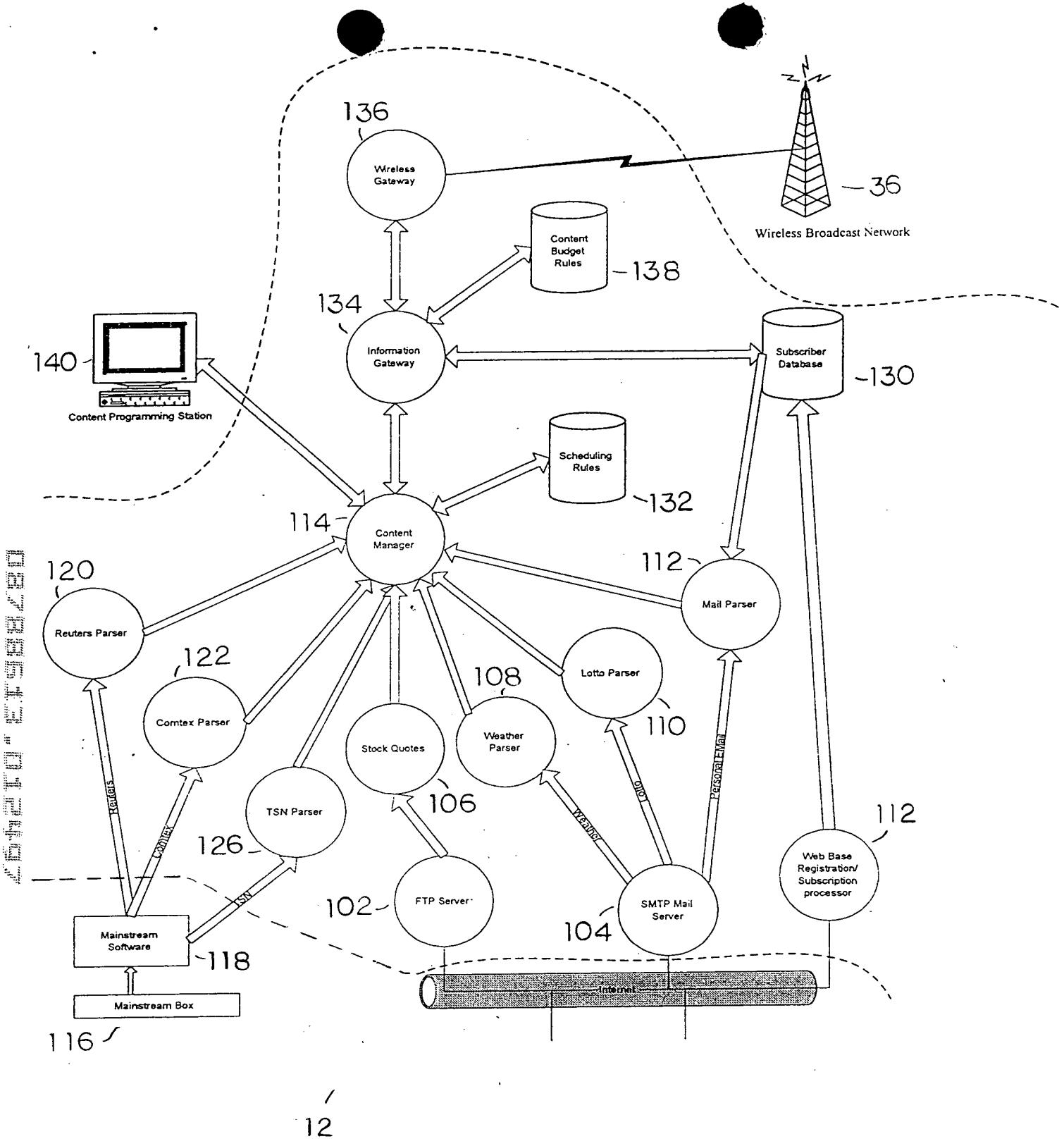


FIG. 2

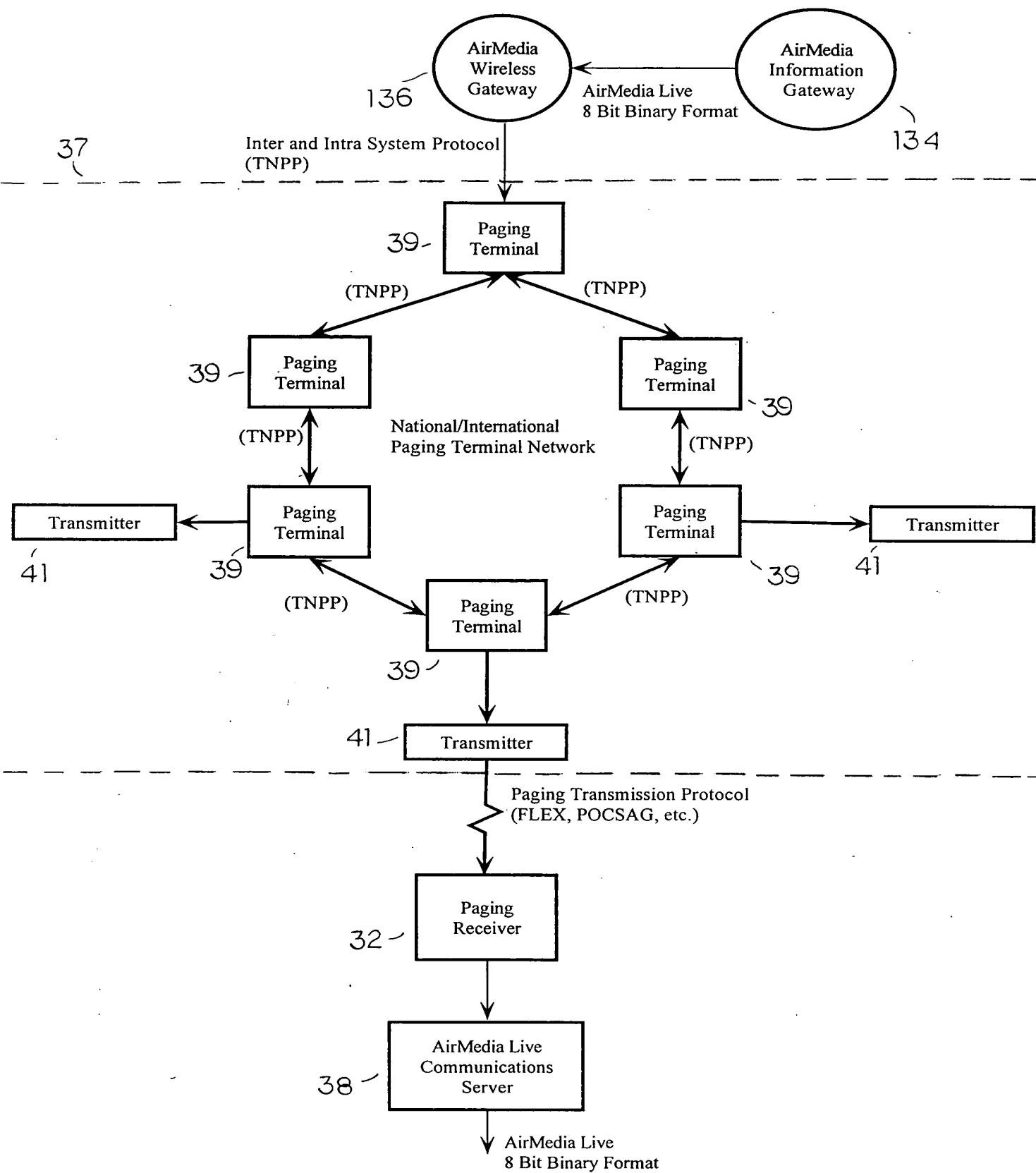
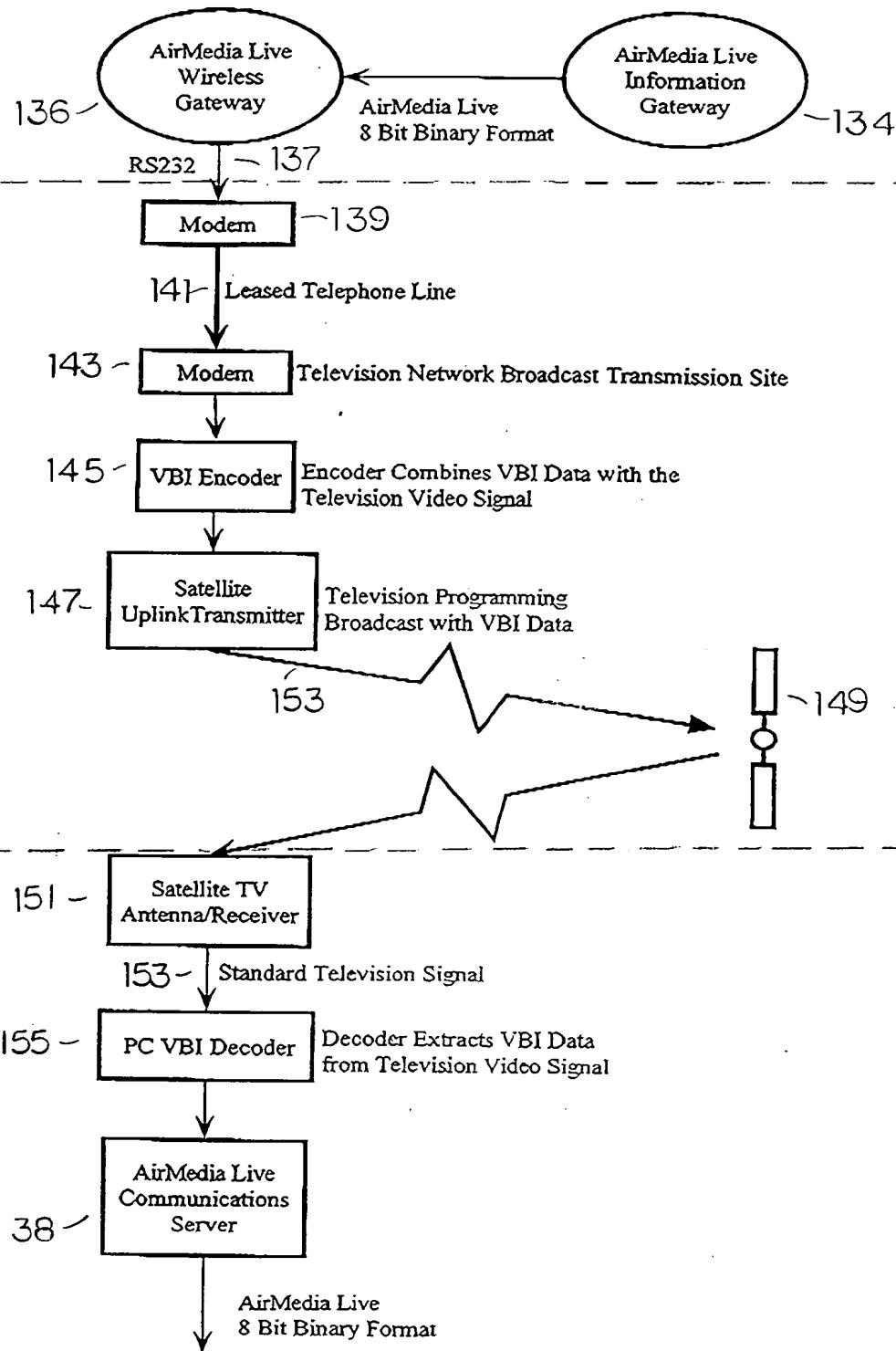
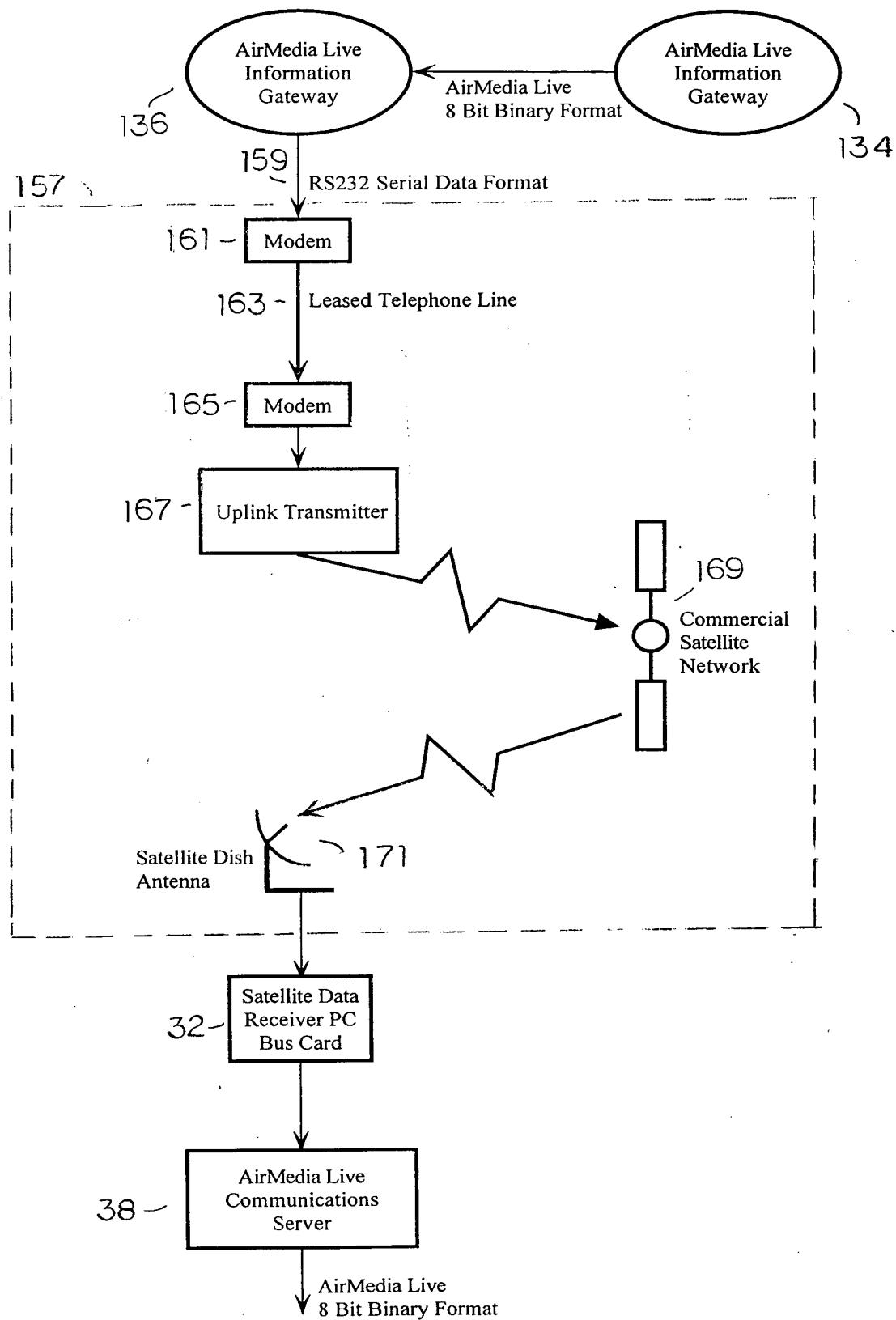


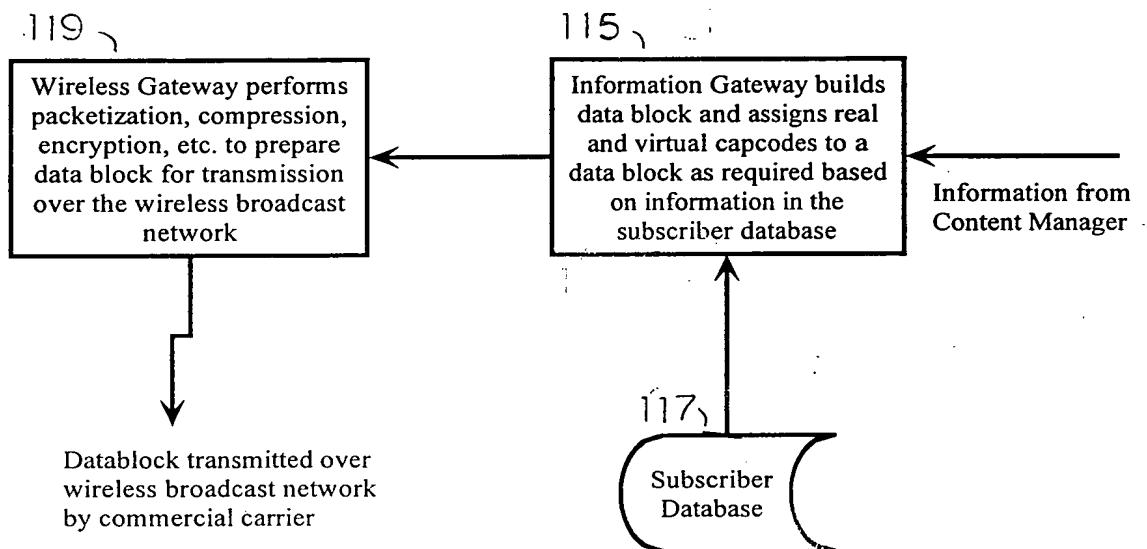
FIG. 3(a)



*FIG. 3(b)*



*FIG 3(c)*



*FIG. 4*

Item	Size	Description
<b>Header:</b>		
CRC	2 bytes	Standard Cyclical Redundancy Code to verify data block integrity.
Header Type	1 bit	If bit clear, then this is a message header. If bit set, then this is the data block header.
Custom Header Flag	1 bit	If bit clear, no custom header. If bit set, then a custom header is included in the data block.
Version Number	4 bits	Protocol version used.
Private Data Block Flag	1 bit	If bit clear, then this data block will be passed on to the Alert Panel for processing and display. If bit set, then this is a private data block to be processed internally by the Communications Server.
Virtual Capcode Flag	1 bit	If bit clear, then this data block is not targeted for a specific virtual capcode and no virtual capcode is included in the data block. If bit set, then this data block contains a virtual capcode.
Data Block Type	1 byte	The value of this byte specifies the type of data contained in the data block. If Private Data Block Flag is clear: 1 = plain text, 2 = AirMedia Live data feed format. If Private Data Block Flag is set: 1 = Capcode reprogramming message, 2 = Binary file transfer.
Data Block Version	4 bits	The version number of this data block's format.
Use Compression Flag	1 bit	If bit clear, then this data block is not compressed. If bit set, then compression is used and the compression type is specified in the Compression ID item.
Use Encryption Flag	1 bit	If bit clear, then this data block is not encrypted. If bit set, then this data block is encrypted.
Spare	2 bits	Reserved for future use.
Compression ID (optional)	1 byte	Included only if Use Compression Flag is set. Indicates the type of compression used.
Virtual Capcode (optional)	1 byte	Included only if Virtual Capcode flag set. Contains the virtual capcode to which this data block is targeted.
Size of Custom Header (optional)	1 byte	Included only if Custom Header Flag is set. Contains the size in bytes of the custom header.
Custom Header (optional)	variable	Reserved for future enhancements to data block protocol. Size determined from previous item.
<b>Contents:</b>		
Data Block Contents	variable	Information notification data from the information source to be processed by AirMedia Live software.

*FIG. 5*

Item	Size	Description
<b>Header:</b>		
Alert Length	1 byte	The size of the alert data in bytes.
Alert Type	1 byte	The value of this item defines the alert type (e.g. new email arrival alert). Up to 256 predefined alert types are allowed.
<b>Contents:</b>		
Alert Data	variable	Personal alert notification data. Size of data is determined by the Alert Length item.

*FIG. 6*

Item	Size	Description
<b>Header:</b>		
CRC	2 bytes	Standard Cyclical Redundancy Code to verify message integrity.
Header Type	1 bit	If bit clear, then this is a message header. If bit set, then this is the data block header.
Custom Header Flag	1 bit	If bit clear, no custom header. If bit set, then a custom header is included in the message.
Data Block ID	14 bits	ID of the data block to which this message belongs.
Message Number	1 byte	The position of this message in the data block (i.e. message sequence number).
Total Messages	1 byte	Total number of messages in the data block.
Size of Custom Header (optional)	1 byte	Included only if Custom Header Flag is set. Contains the size in bytes of the custom header.
Custom Header (optional)	variable	Reserved for future enhancements to message protocol. Size determined from previous item.
<b>Contents:</b>		
Message Contents	variable	The data portion of the message.

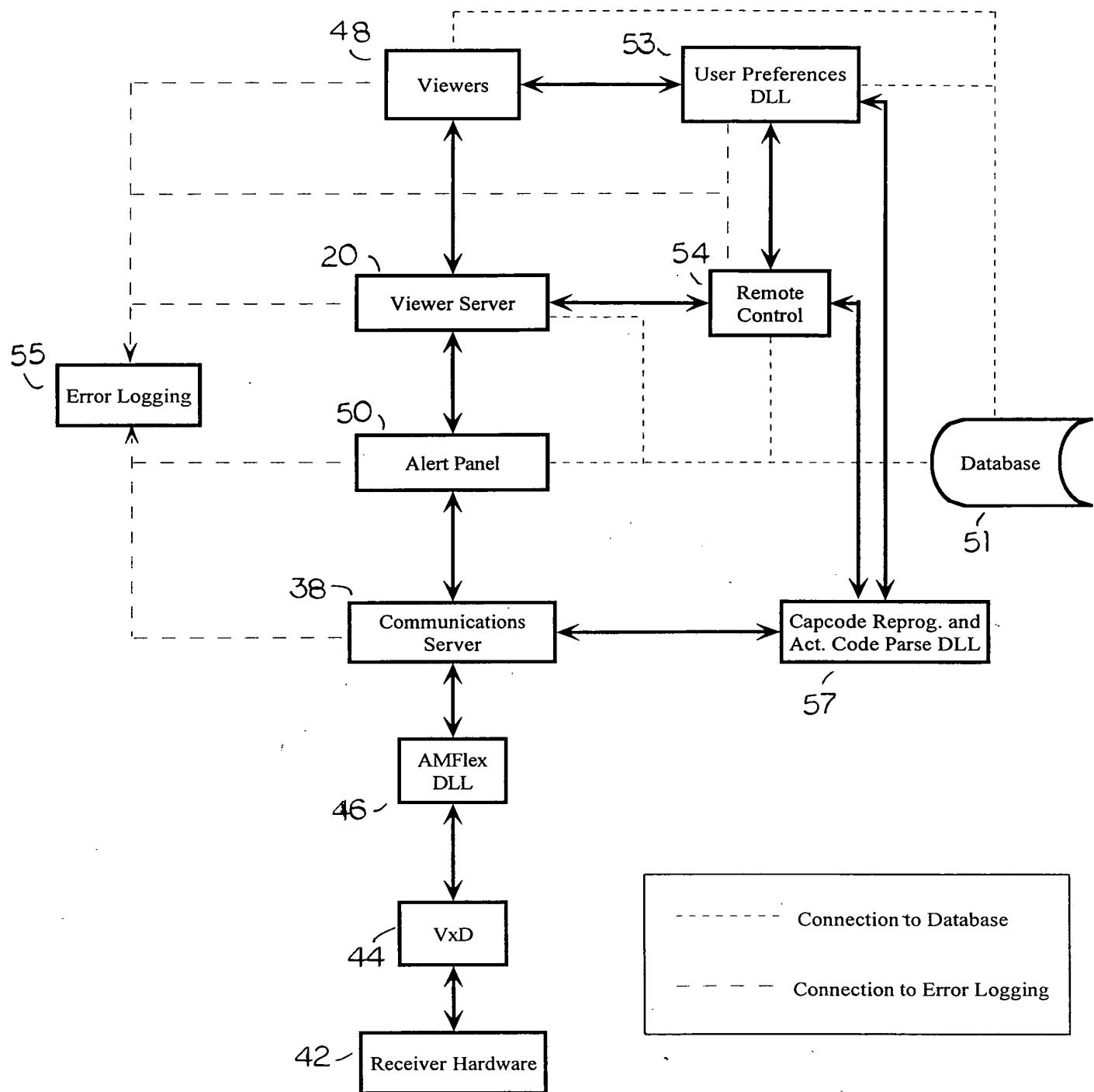
*FIG. 7*

Item	Size	Description
<b>Header:</b>		
Packet Type	4 bits	The value of this item indicates the packet type: 0 = Standard AirMedia Live Packet; 1 = Single Packet Data Block; if the left most bit (high bit) is set, then this is a Binary Alert Packet.
Total Packets Flag	1 bit	If bit is clear, then the Total Data Packets and Total Error Correction Packets items are not present. If bit is set, then the Total Data Packets and Total Error Correction Packets items are present.
Message ID	11 bits	The number of the message to which this packet belongs.
Packet Number	1 byte	The position of this packet in the message (packet sequence number).
Total Data Packets	1 byte	Total number of data packets in the message (does not include error correction packets).
Total Error Correction Packets	1 byte	Total number of Reed-Solomon forward error correction packets in the message.
<b>Contents:</b>		
Packet Contents	variable	The data portion of the packet.

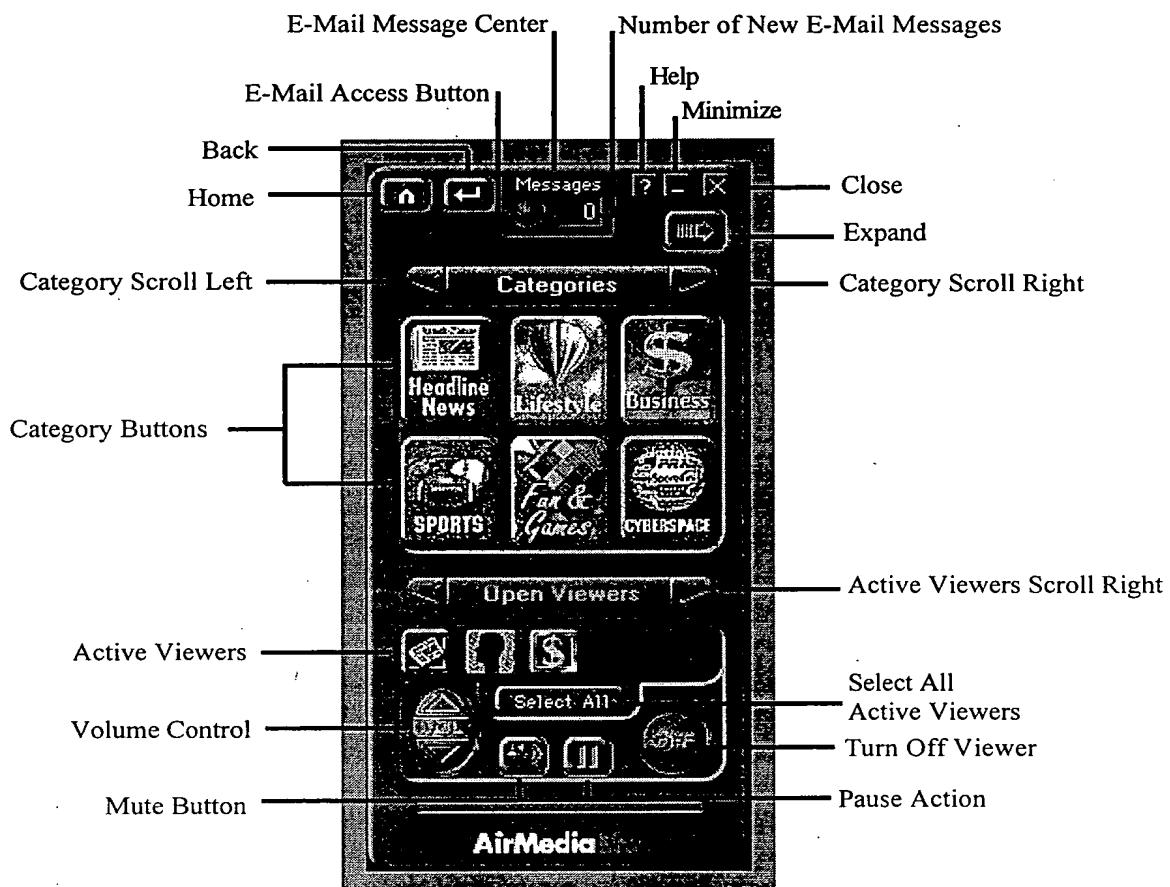
*FIG. 8*

Item	Size	Description
<b>Header:</b>		
Packet Type	4 bits	The value of this item indicates the packet type: 0 = Standard AirMedia Live Packet; 1 = Single Packet Data Block; if the left most bit (high bit) is set, then this is a Binary Alert Packet.
Data Block ID	12 bits	The ID of the data block contained in this packet.
<b>Contents:</b>		
Packet Contents	variable	The header and contents of the data block contained in this packet.

*FIG. 9*



*FIG. 10*



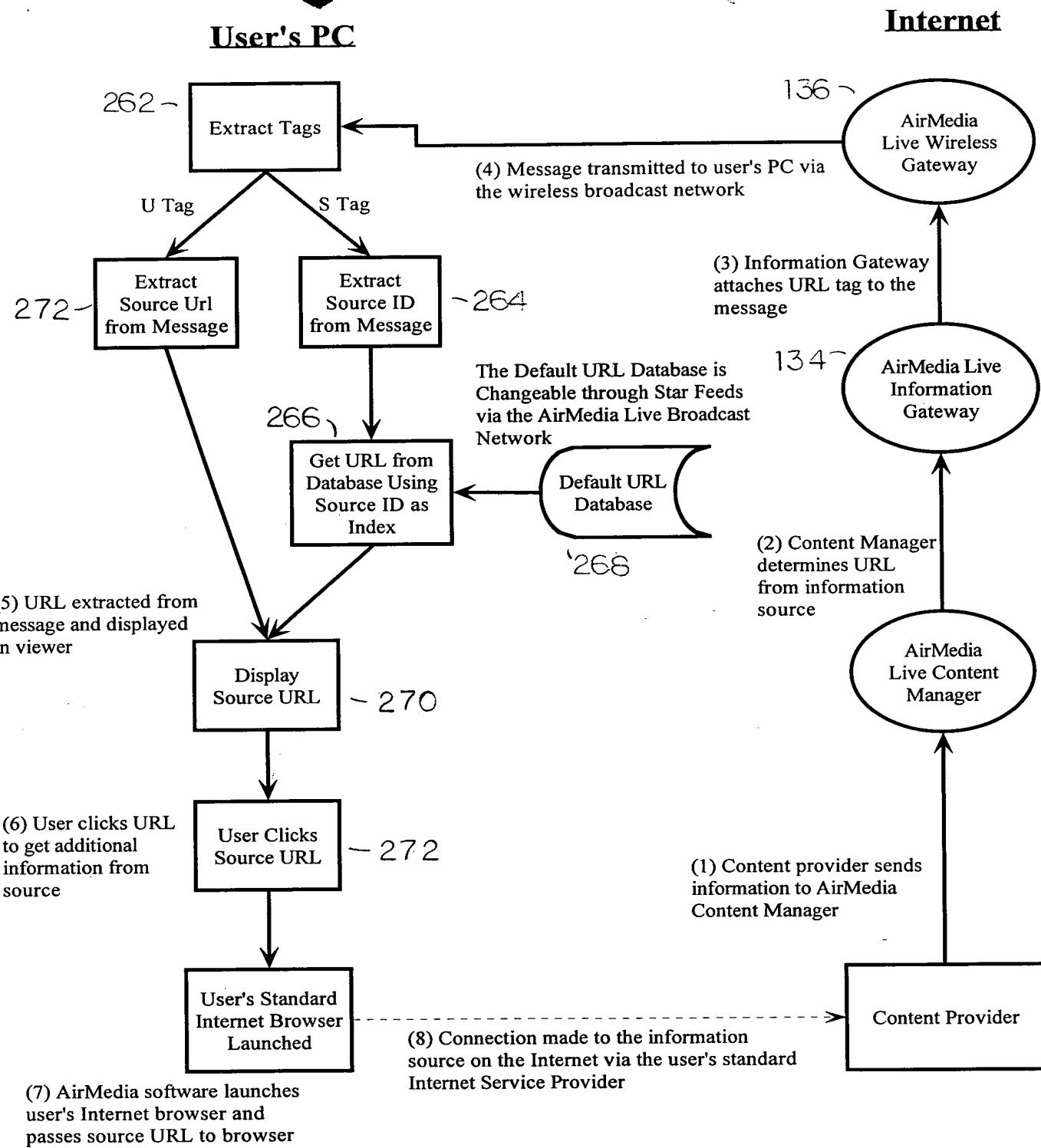
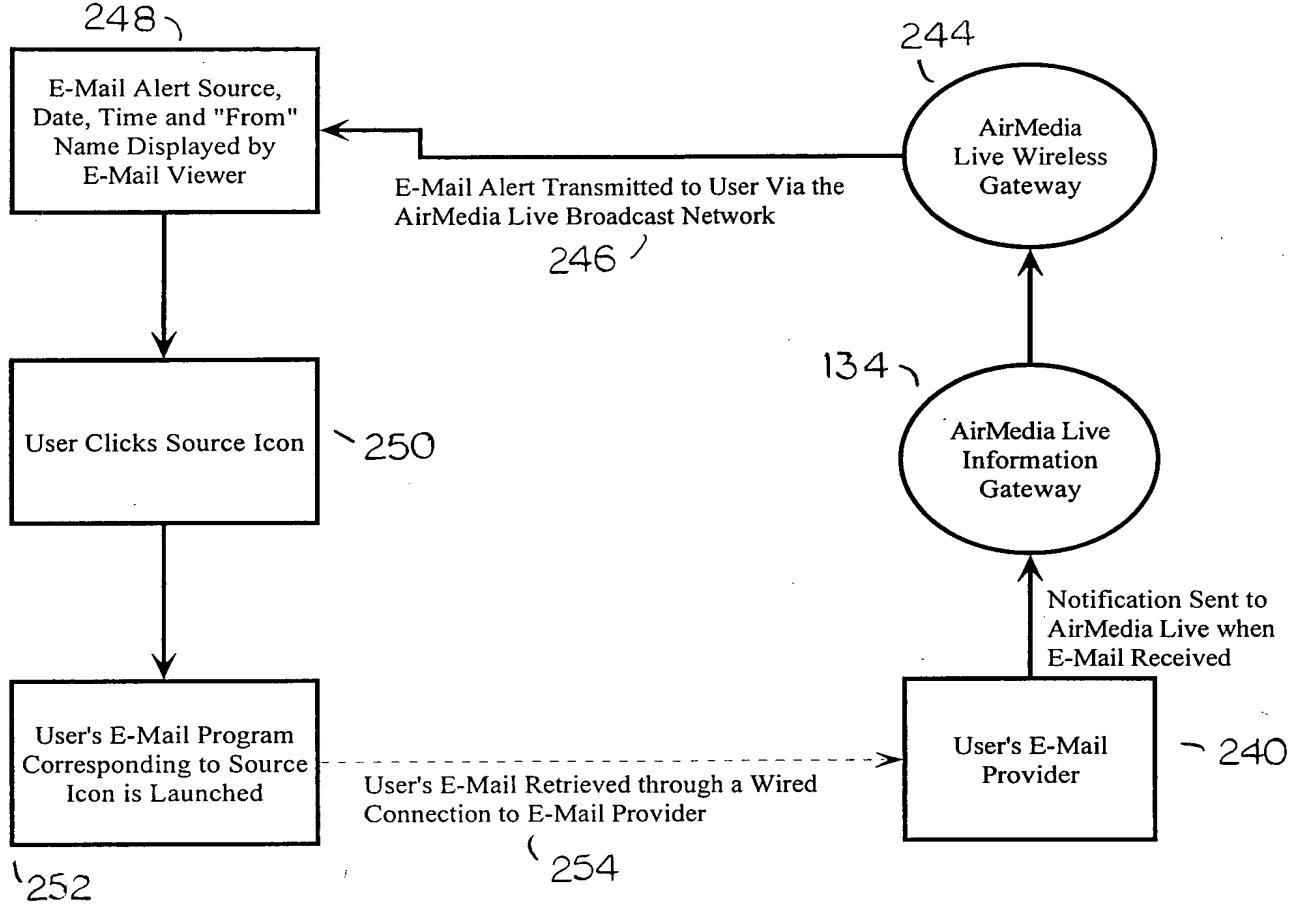
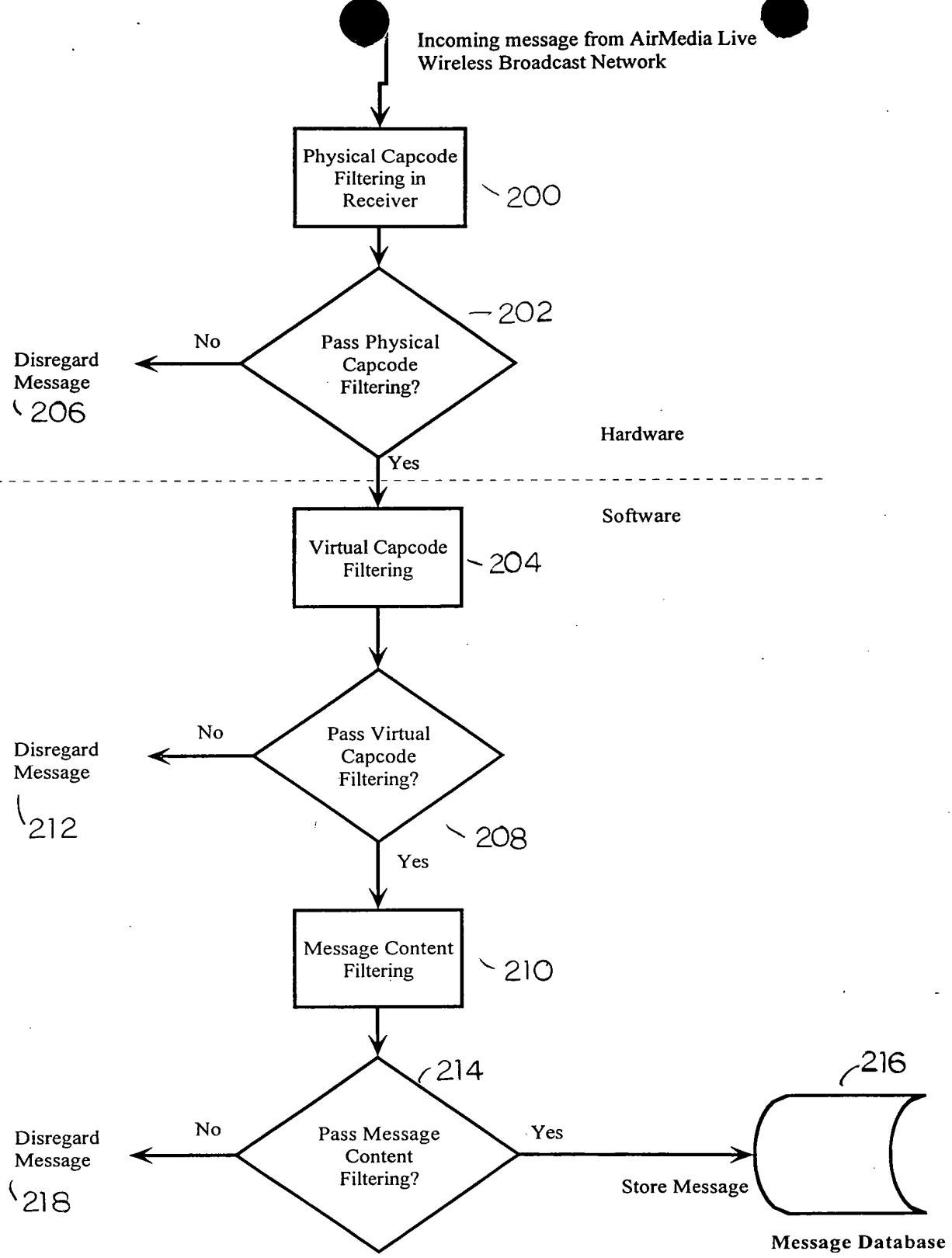


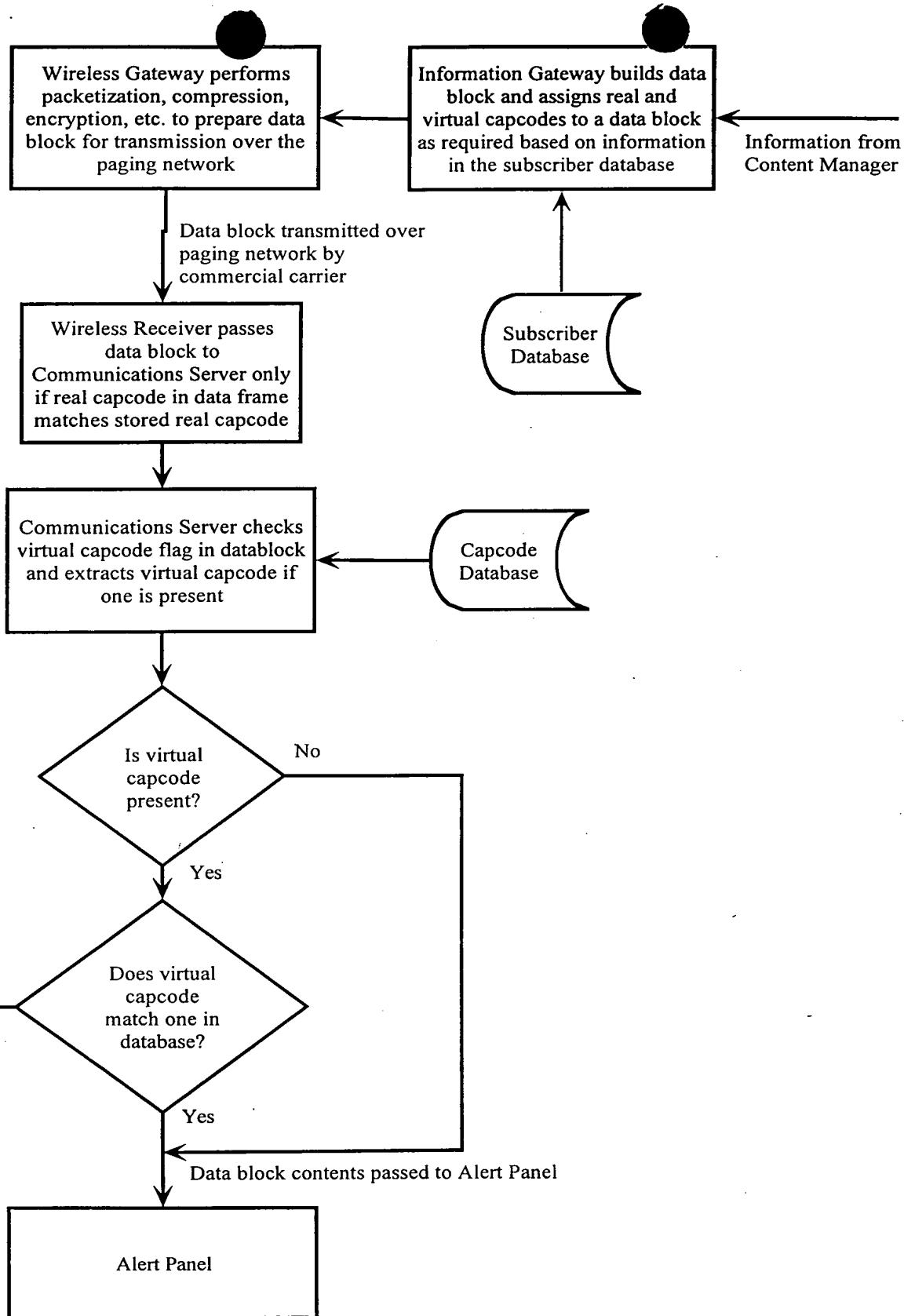
FIG. 12



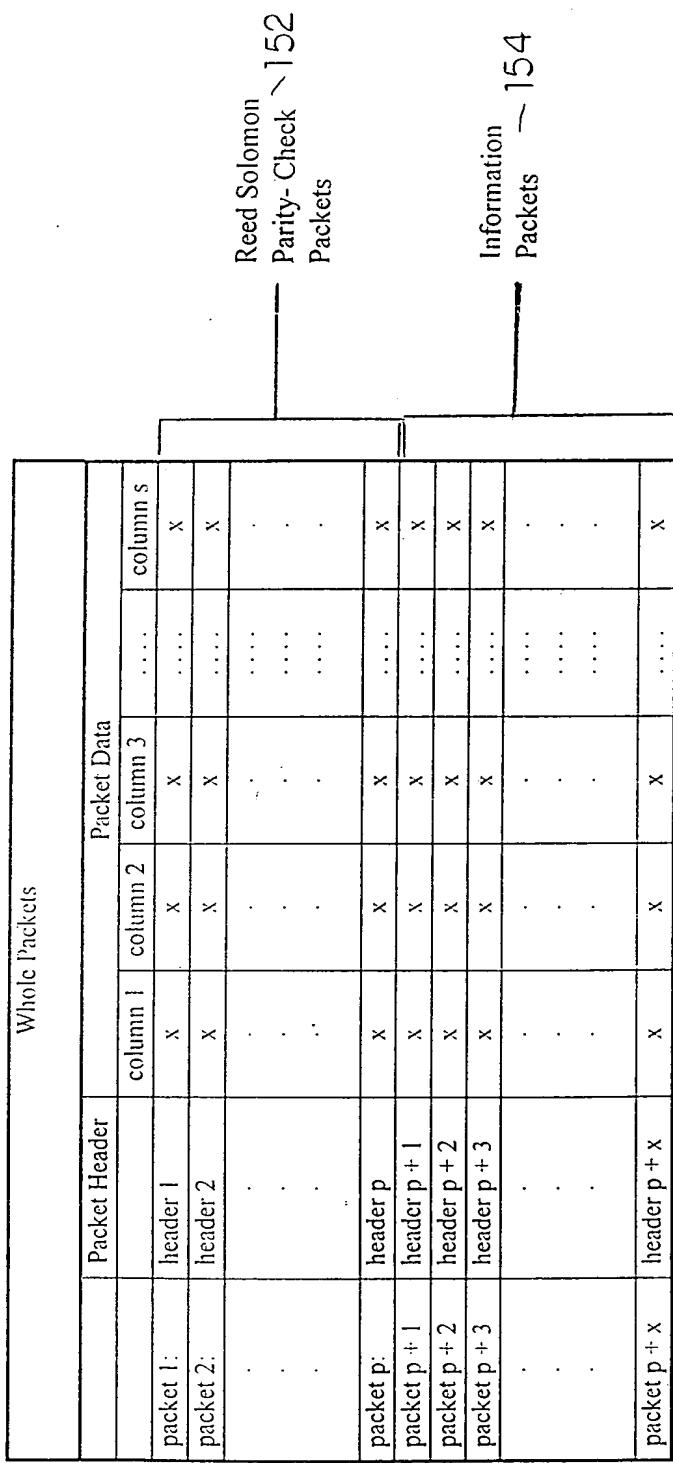
**FIG. 13**



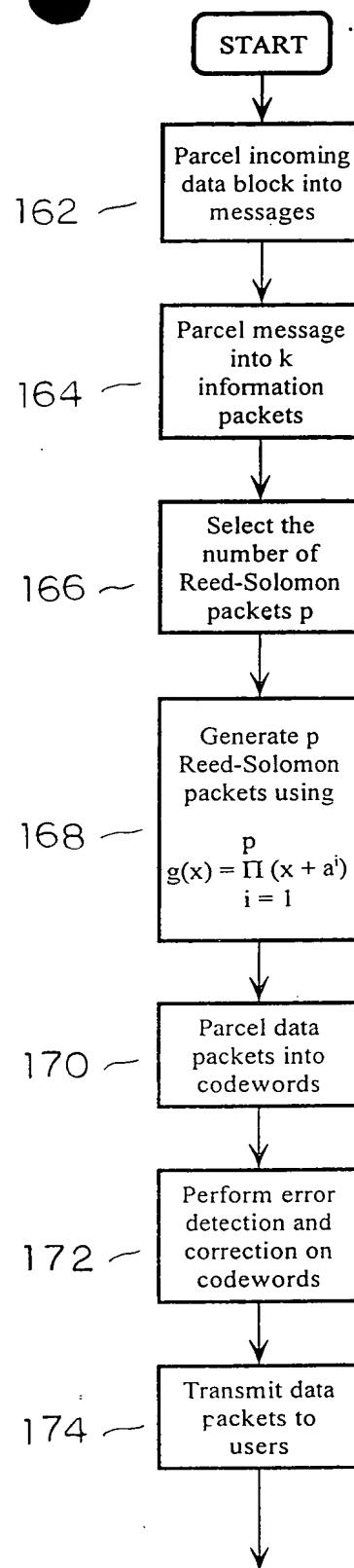
**FIG. 14**



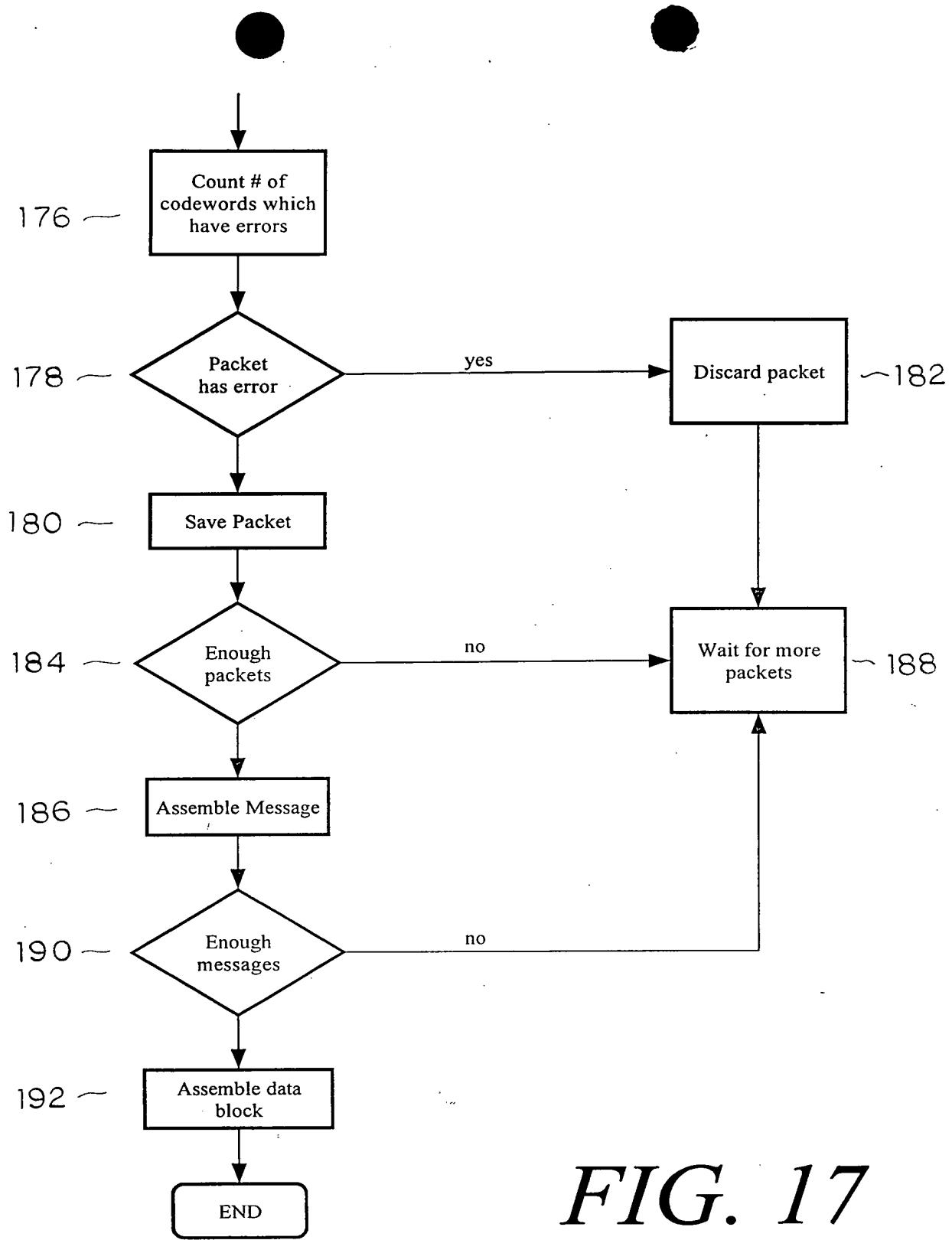
*FIG. 15*



# FIG. 16



*FIG. 17*



*FIG. 17  
(cont.)*

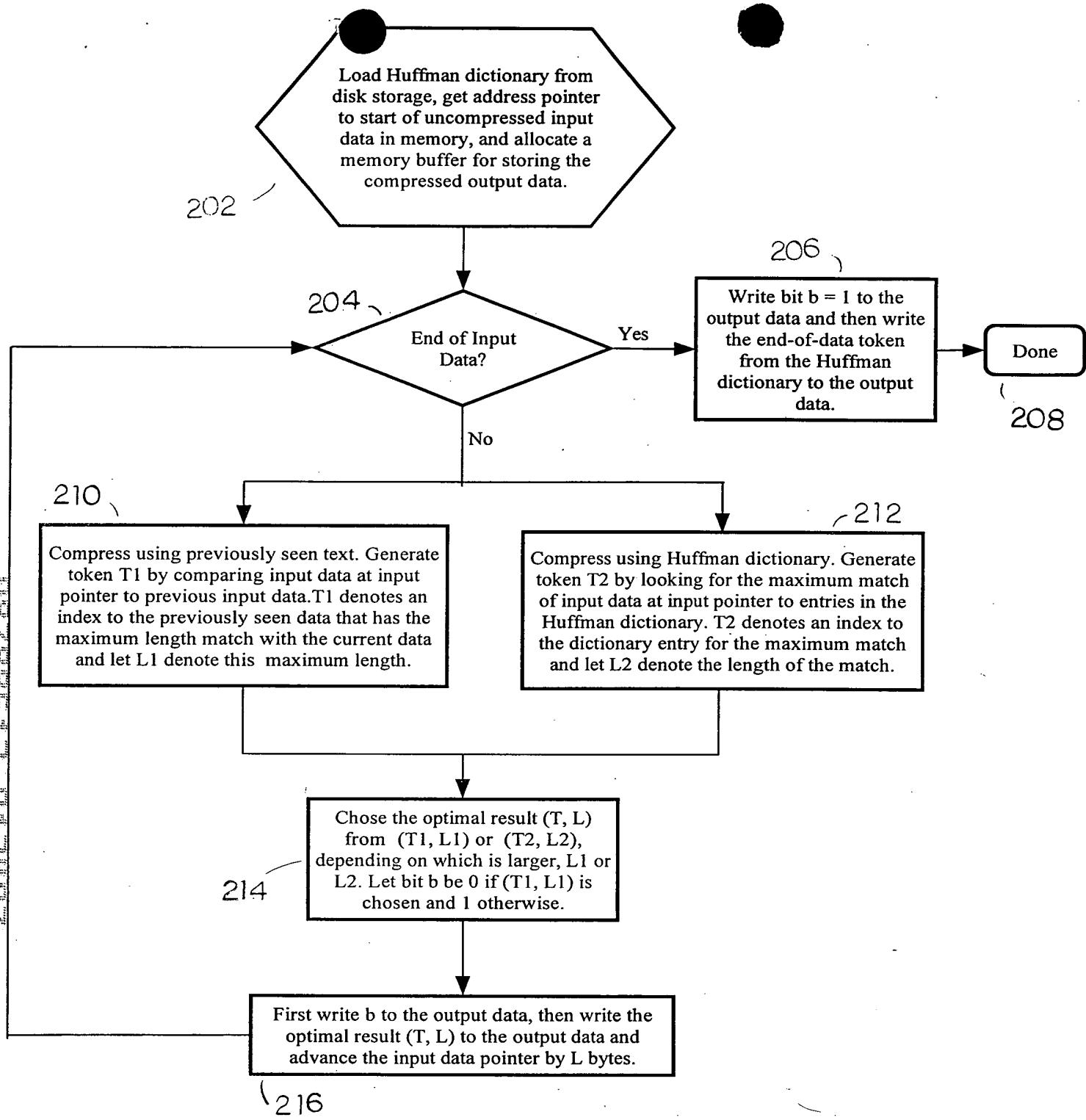
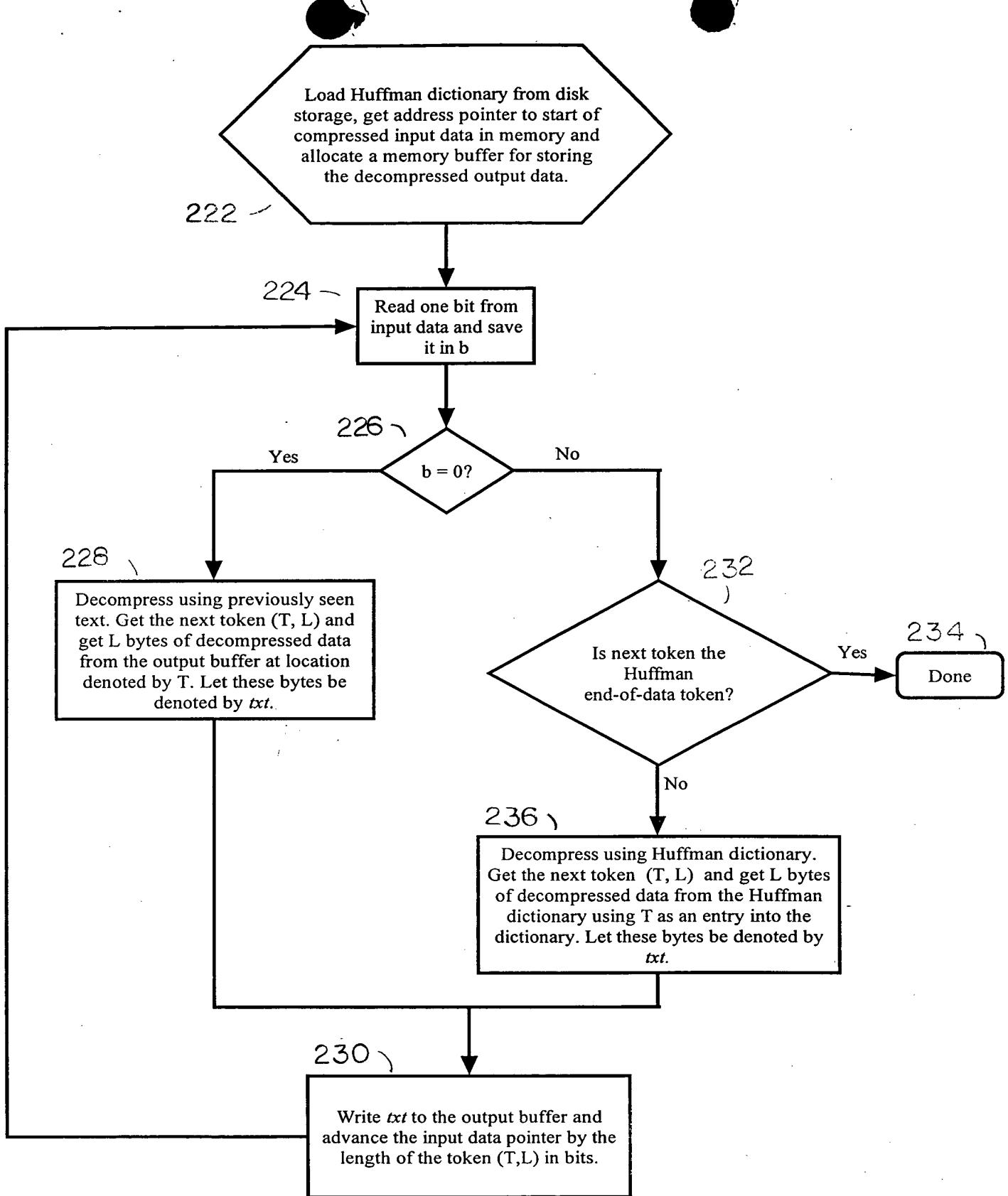
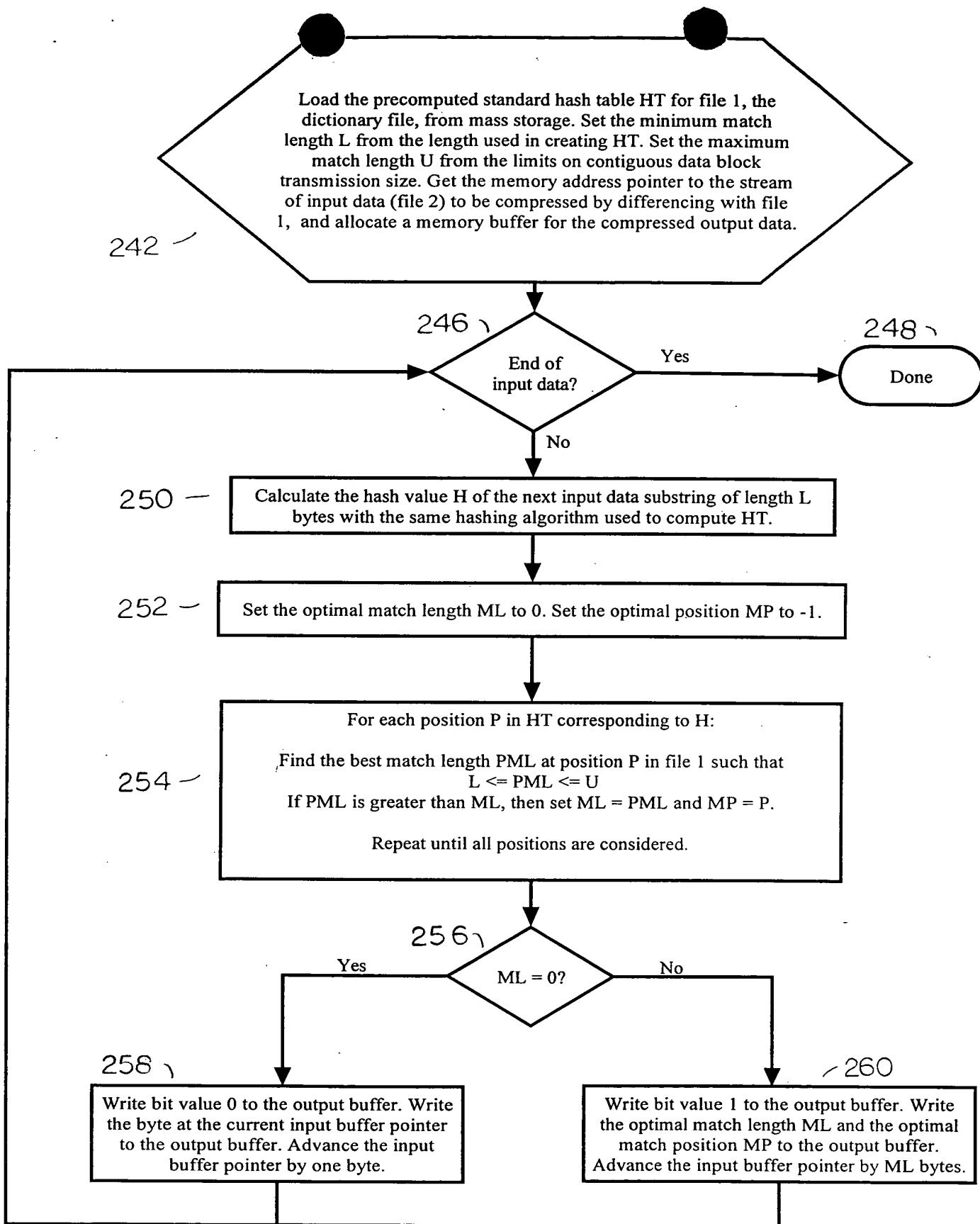


FIG. 18(a)



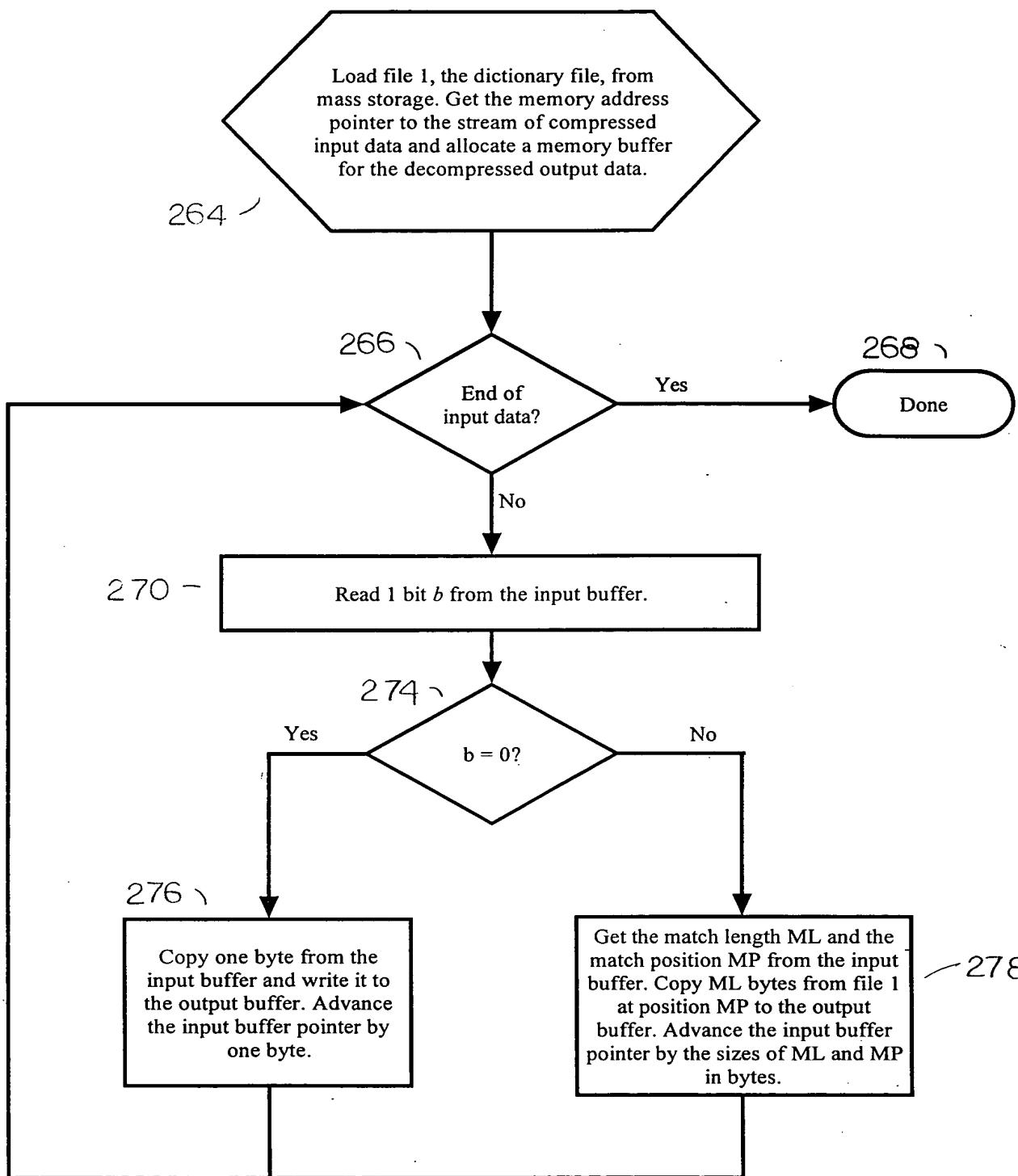
220

FIG. 18(b)

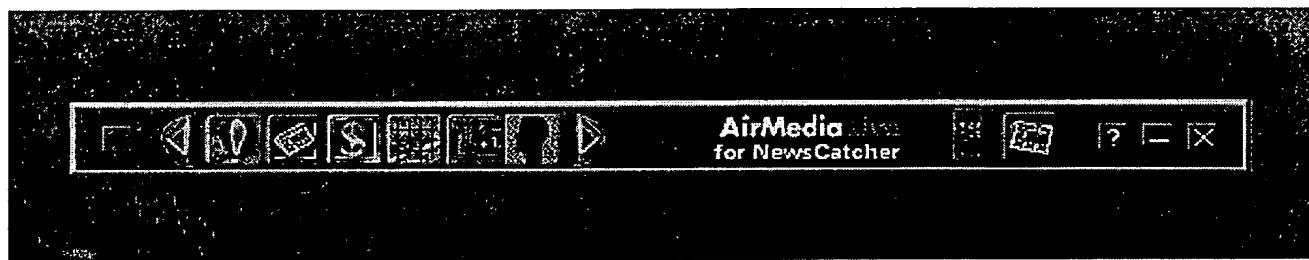


240

*FIG. 19(a)*



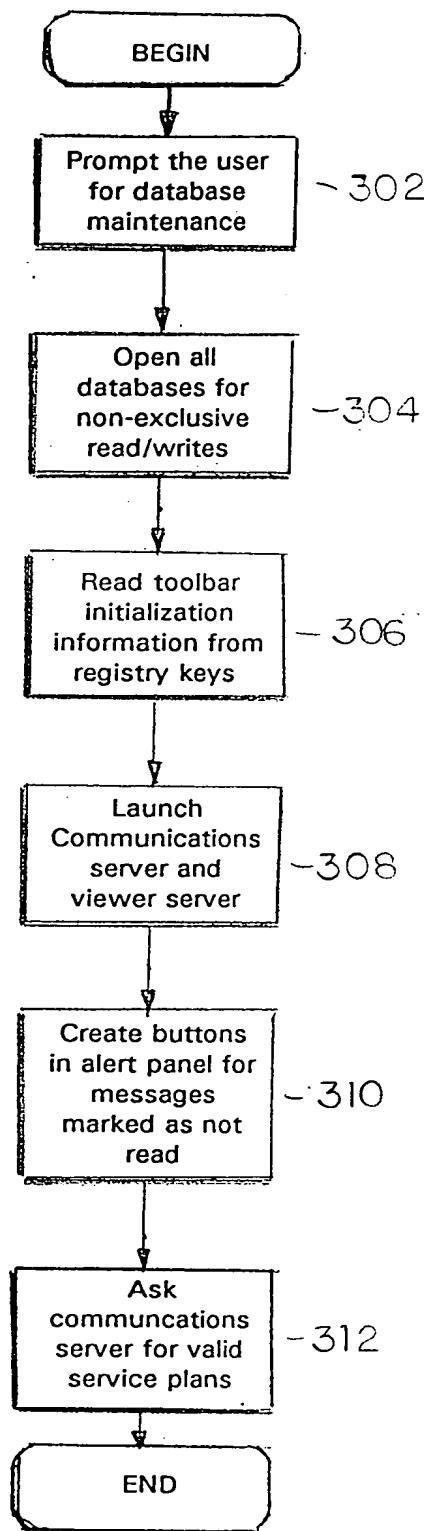
*FIG. 19(b)*



50

*FIG. 20*

300



*FIG. 21*

# FIG. 22

## USER INTERFACE ALERT PANEL 50

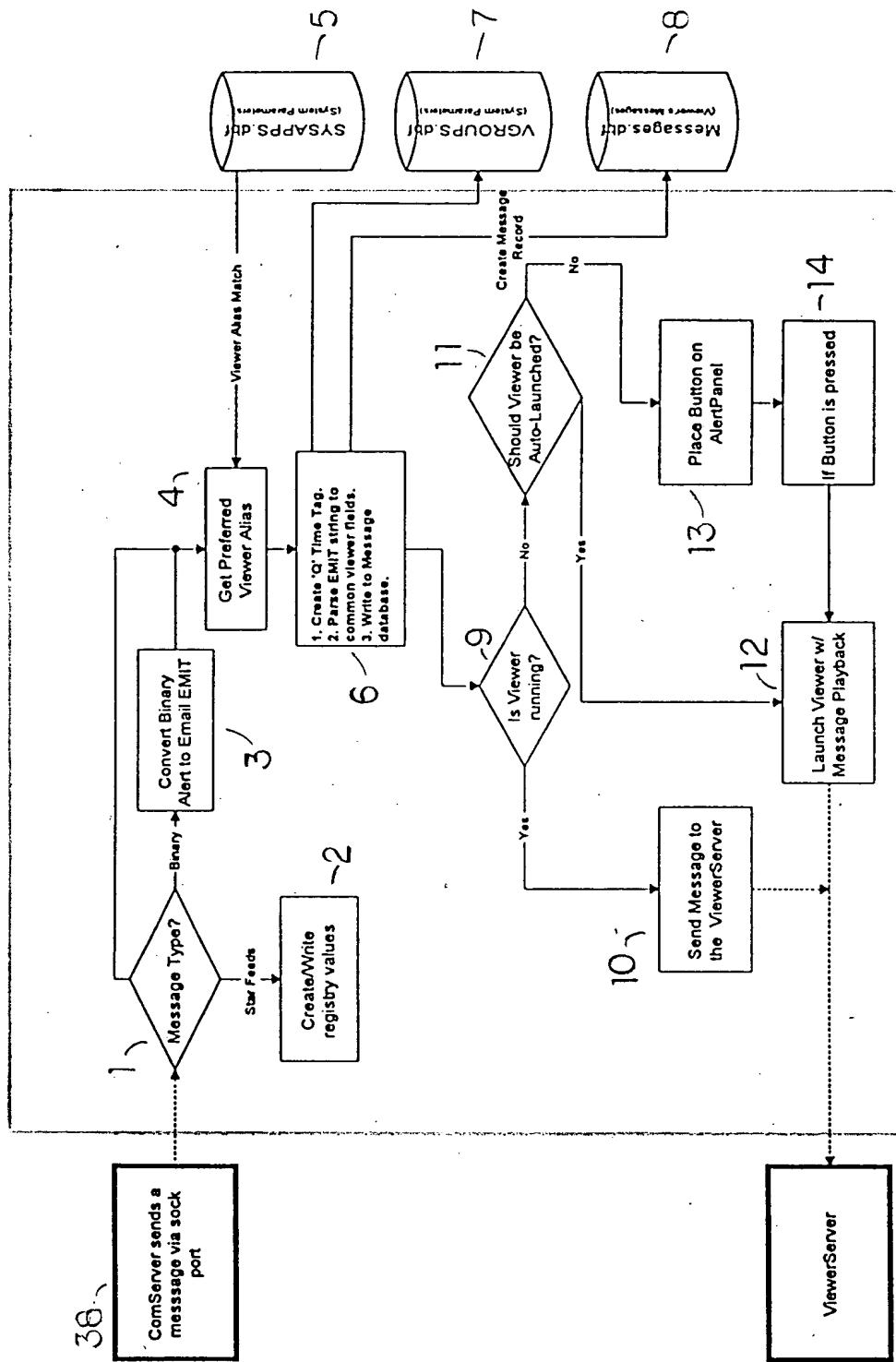
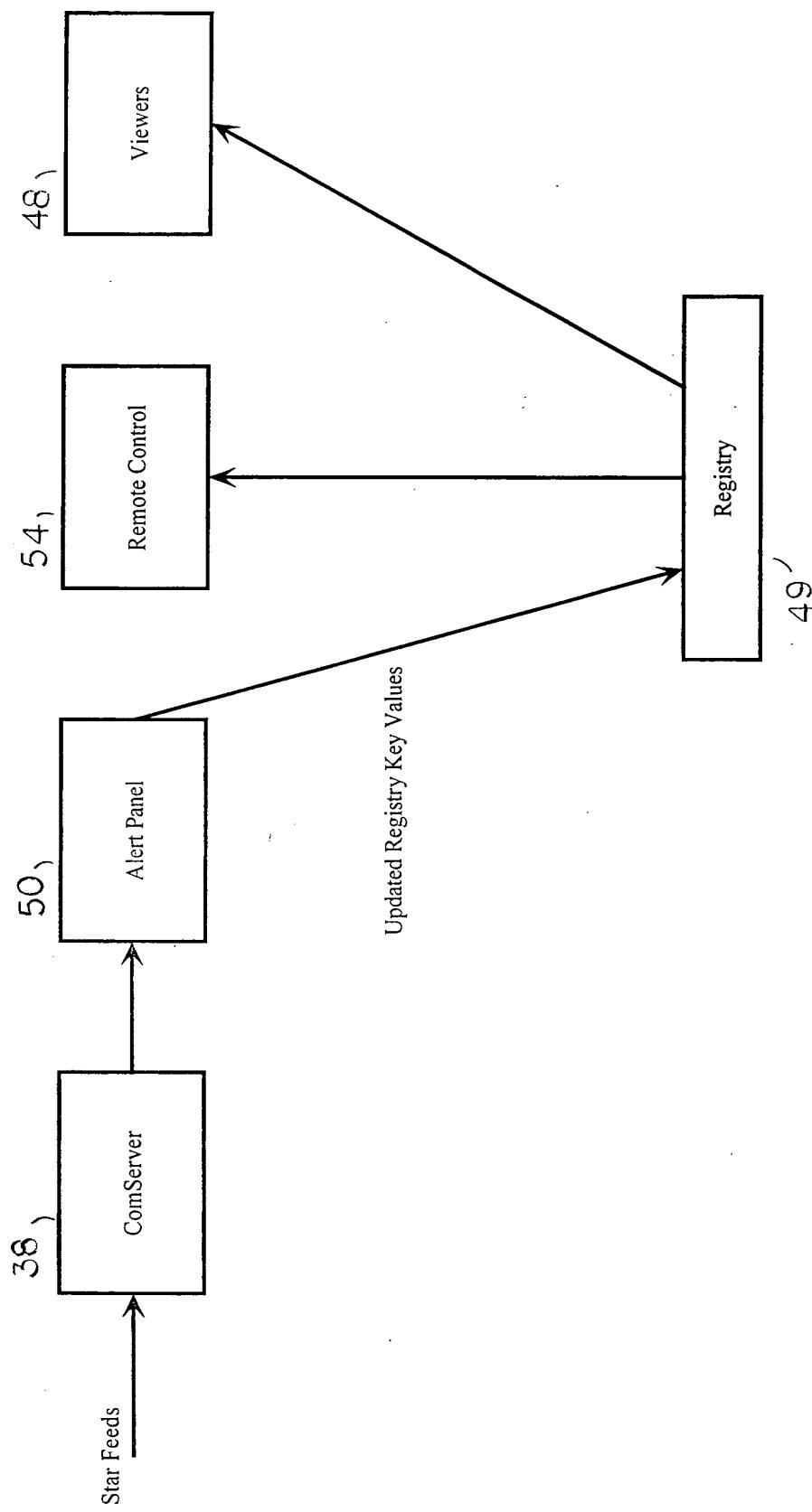


FIG. 23



11/13/96 10:29:07

**Market Scoreboard**

**INDEXES**

Dow Jones 0	6266.04	285,490
S&P 500 .09	729.65	↑
NASDAQ 3.60	1260.13	↑
FT 100 7.40	3926.90	↓
NIKKEI 2.22	213.11	↓
DJIA as of 11/13/96 10:54 (Eastern)		

**VOLUME**

**CURRENCIES**

Britain 1.6607	T 37 <sup>3</sup> <sub>4</sub>	5 <sub>2</sub> ↓
Canada 1.3339	BLS 39 <sup>3</sup> <sub>8</sub>	3 <sub>4</sub> ↓
Germany 1.5043	BEL 60 <sup>3</sup> <sub>8</sub>	1 <sub>4</sub> ↓
Japan 111.32	NYN 45 <sup>3</sup> <sub>8</sub>	5 <sub>3</sub> ↓
France 5.0830	AIT 55 <sup>3</sup> <sub>8</sub>	5 <sub>4</sub> ↓

**FIFTEEN FAVORITES**

All quotes delayed 15 minutes	FIFTEEN ACTIVE TRADERS		
	WMT 6,398,700	24 <sup>3</sup> <sub>8</sub>	3 <sub>1</sub> ↓
	T 6,178,400	37 <sup>3</sup> <sub>4</sub>	5 <sub>8</sub> ↓
	WX 4,182,200	19 <sup>3</sup> <sub>8</sub>	1 <sub>4</sub> ↓
	MU 3,875,500	37 <sup>3</sup> <sub>8</sub>	5 <sub>8</sub> ↑
	CPO 3,864,700	75 <sup>3</sup> <sub>3</sub>	1 <sub>2</sub> ↑

**STOCKS**

**FIFTEEN FAVORITES - NYSE**

**NEWS** Dow Jones is down 30 points.

FIG. 24(a)

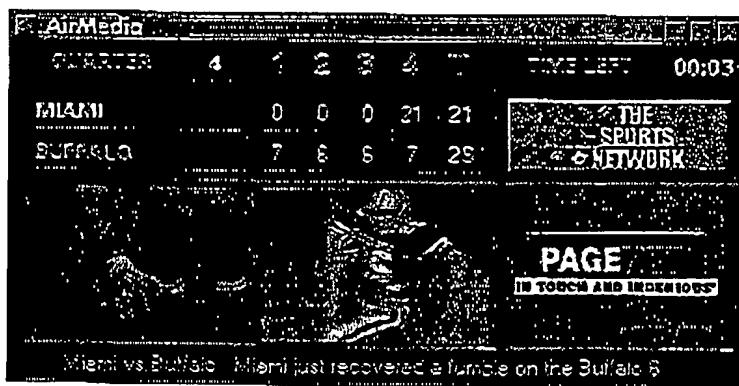


FIG. 24(b)

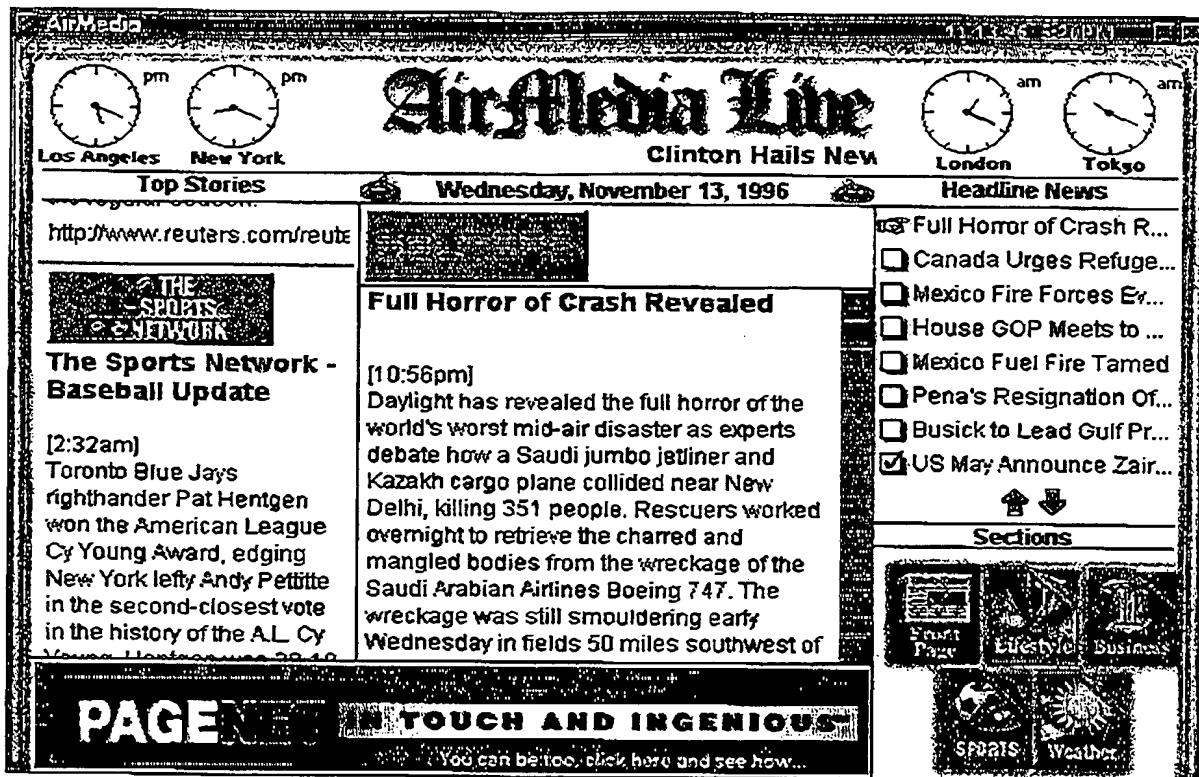
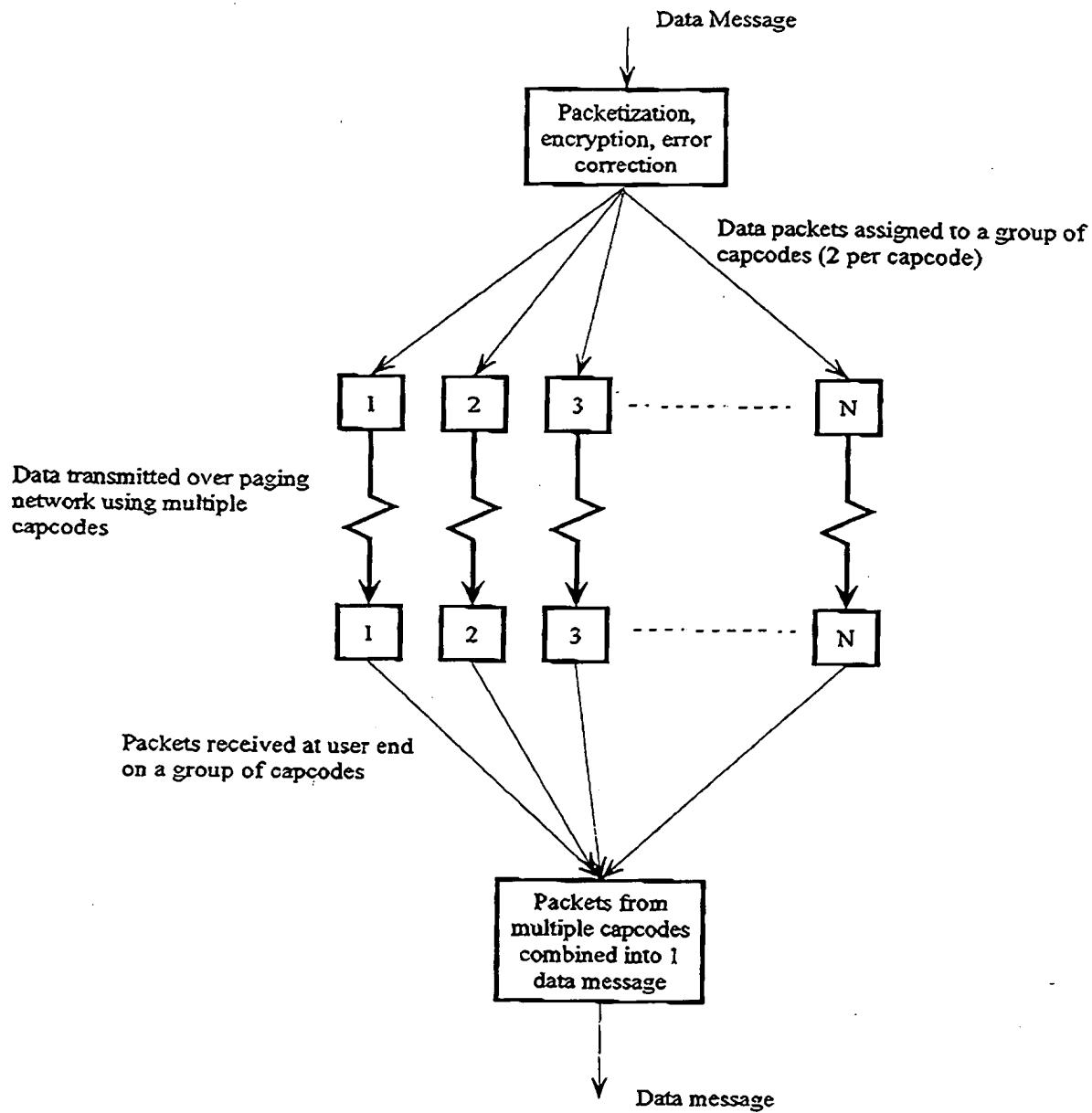


FIG. 24(c)



FIG. 24(d)



*FIG. 25*